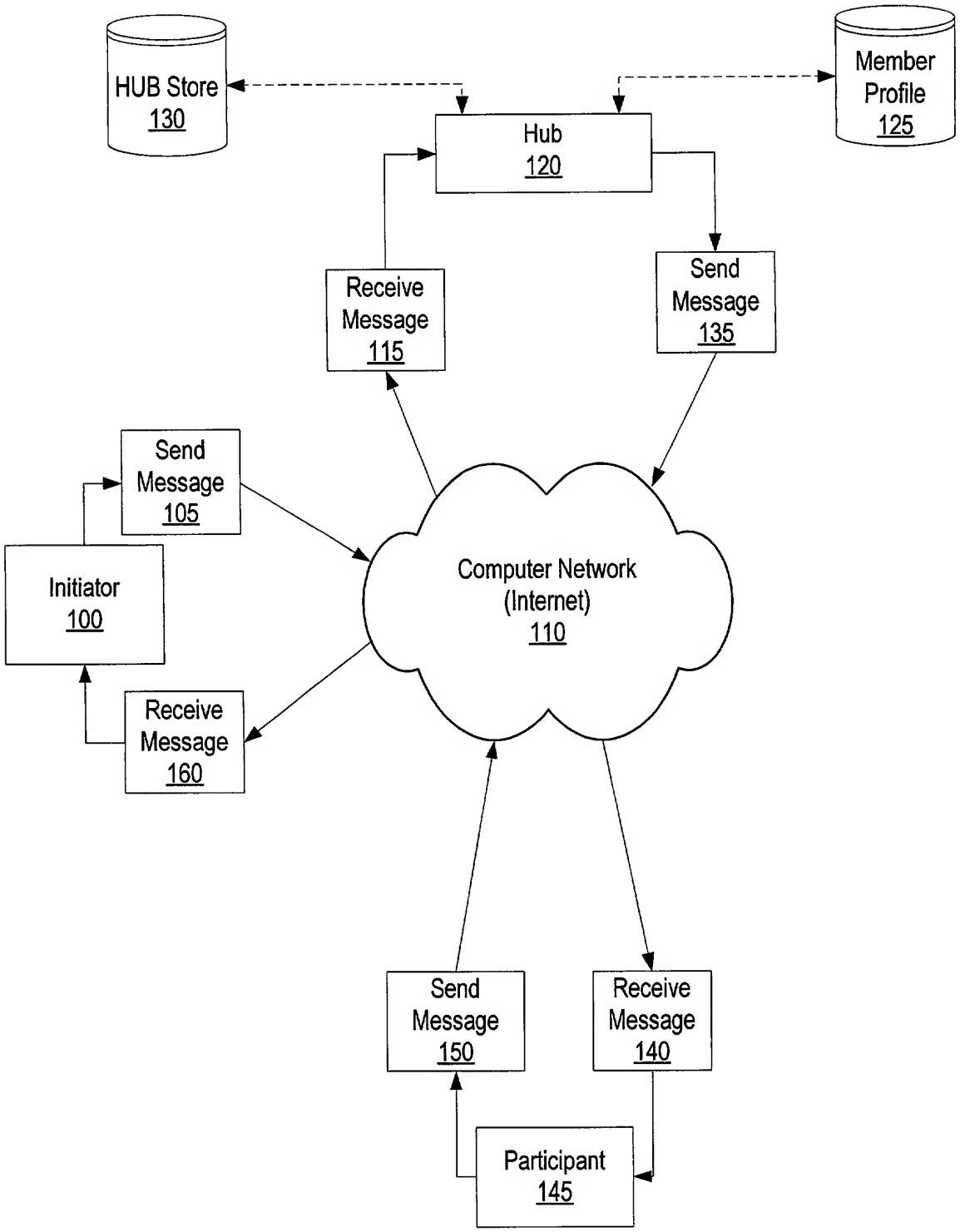
HUB Store
130
Member
Profile
125
Hub
120
Receive
Message
115
Send
Message
135
Send
Message
105
Initiator
100
Computer Network
(Internet)
110
Receive
Message
160
Send
Message
150
Receive
Message
140
Participant
145

Figure 1

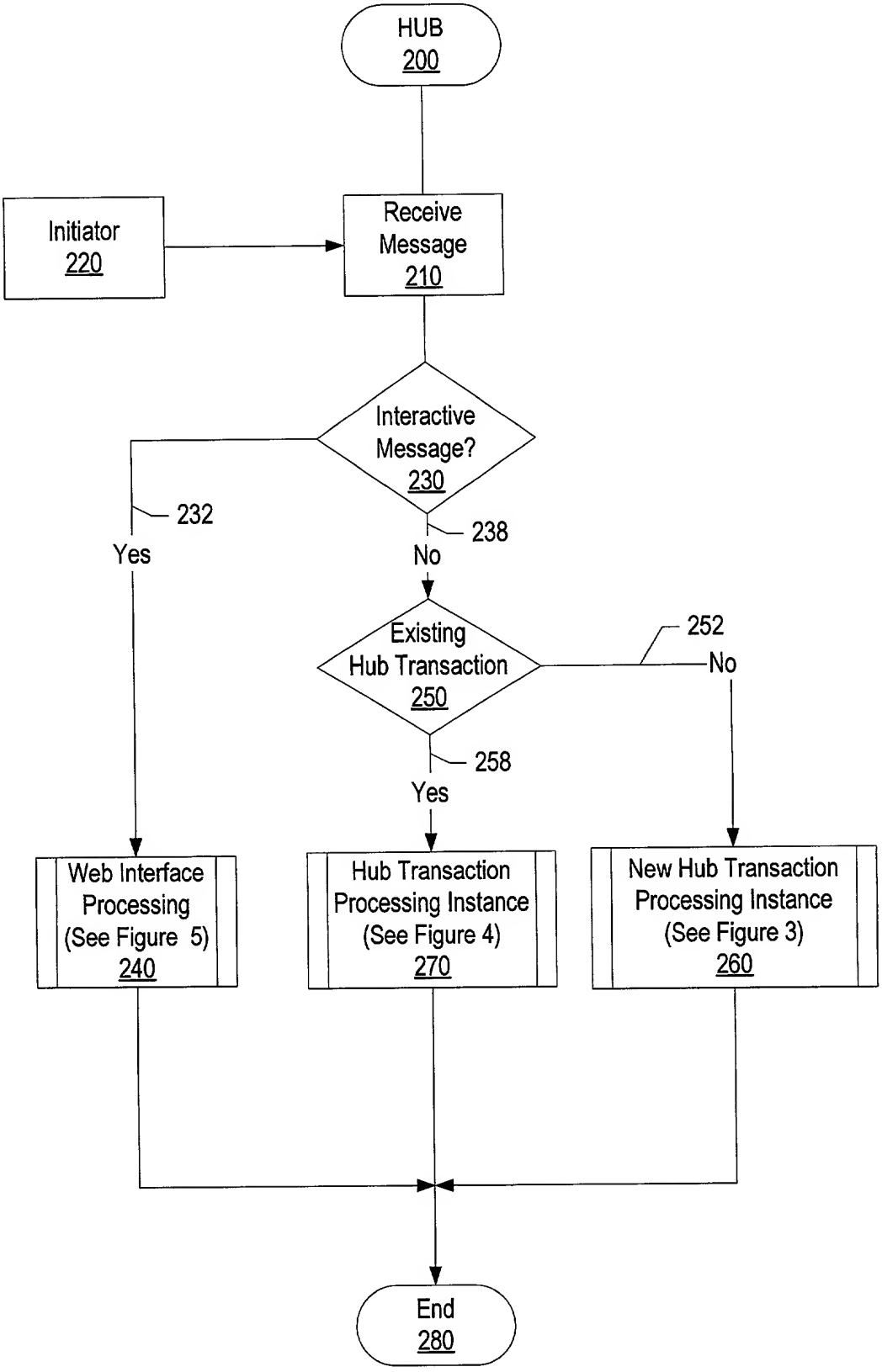
HUB
200
Initiator
220
Receive
Message
210
Interactive
Message?
230
232
Yes
238
No
Existing
Hub Transaction
250
252
No
258
Yes
Web Interface
Processing
(See Figure 5)
240
Hub Transaction
Processing Instance
(See Figure 4)
270
New Hub Transaction
Processing Instance
(See Figure 3)
260
End
280

Figure 2

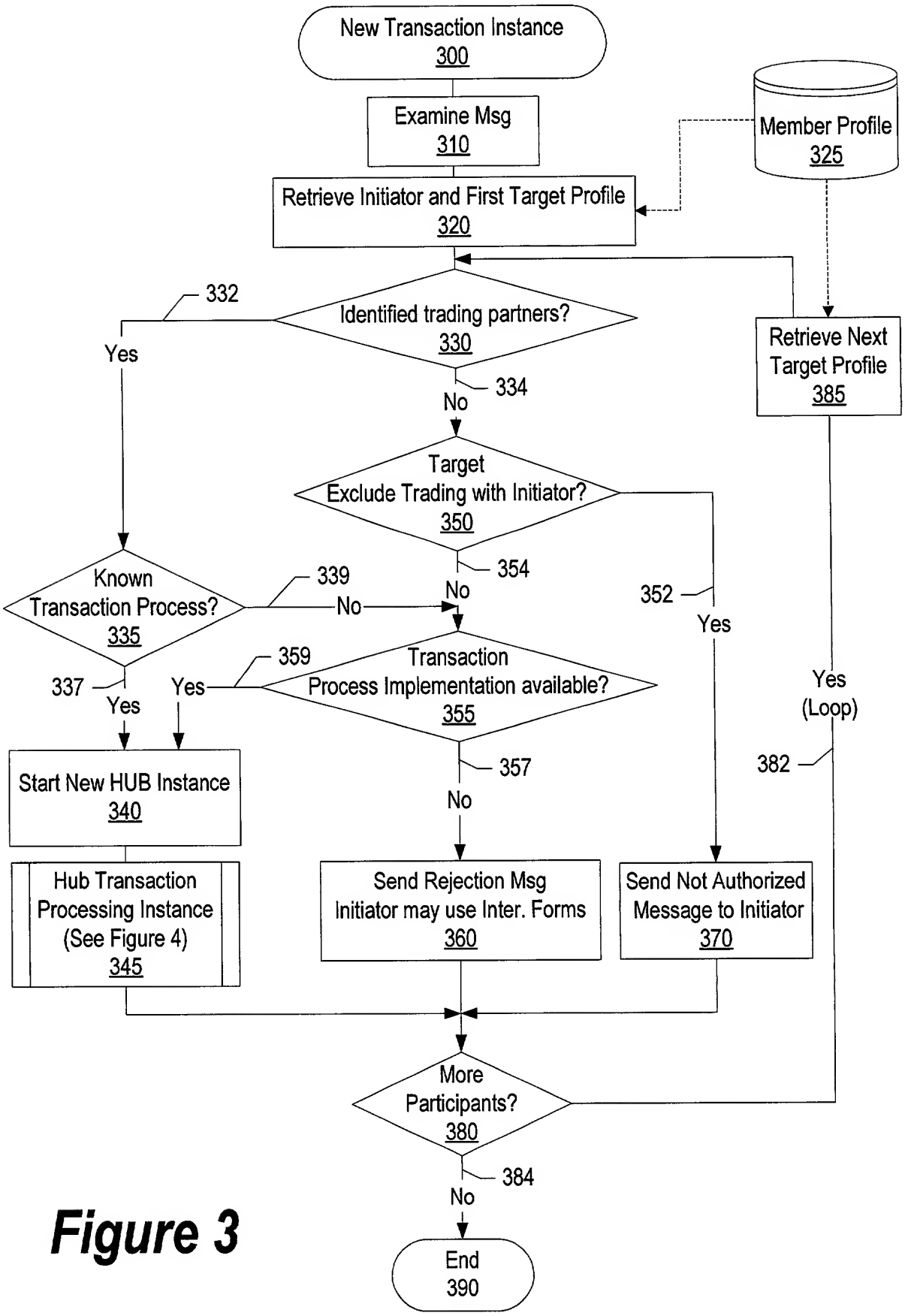
New Transaction Instance
300
Examine Msg
310
Member Profile
325
Retrieve Initiator and First Target Profile
320
332
Identified trading partners?
330
Yes
No
334
Retrieve Next Target Profile
385
Target
Exclude Trading with Initiator?
350
354
Known
Transaction Process?
335
339
No
No
352
Yes
337
Yes
Yes
359
Transaction
Process Implementation available?
355
Yes
(Loop)
382
Start New HUB Instance
340
357
No
Hub Transaction
Processing Instance
(See Figure 4)
345
Send Rejection Msg
Initiator may use Inter. Forms
360
Send Not Authorized
Message to Initiator
370
More
Participants?
380
384
No
End
390

Figure 3

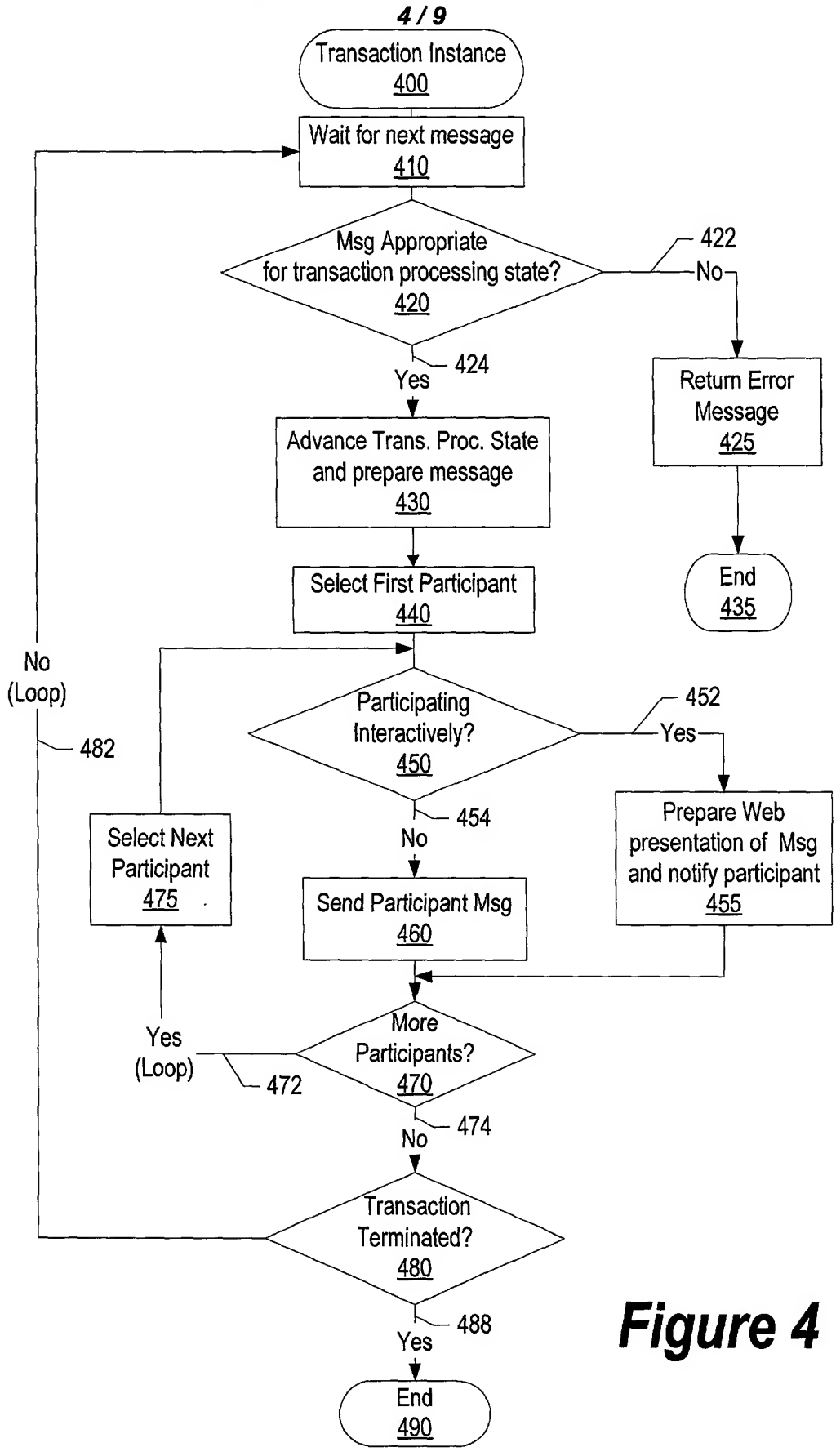
Transaction Instance
400
Wait for next message
410
Msg Appropriate for transaction processing state?
420
422
No
Return Error Message
425
End
435
424
Yes
Advance Trans. Proc. State and prepare message
430
Select First Participant
440
No (Loop)
482
Participating Interactively?
450
452
Yes
Prepare Web presentation of Msg and notify participant
455
454
No
Send Participant Msg
460
Select Next Participant
475
Yes (Loop)
472
More Participants?
470
474
No
Transaction Terminated?
480
488
Yes
End
490

Figure 4

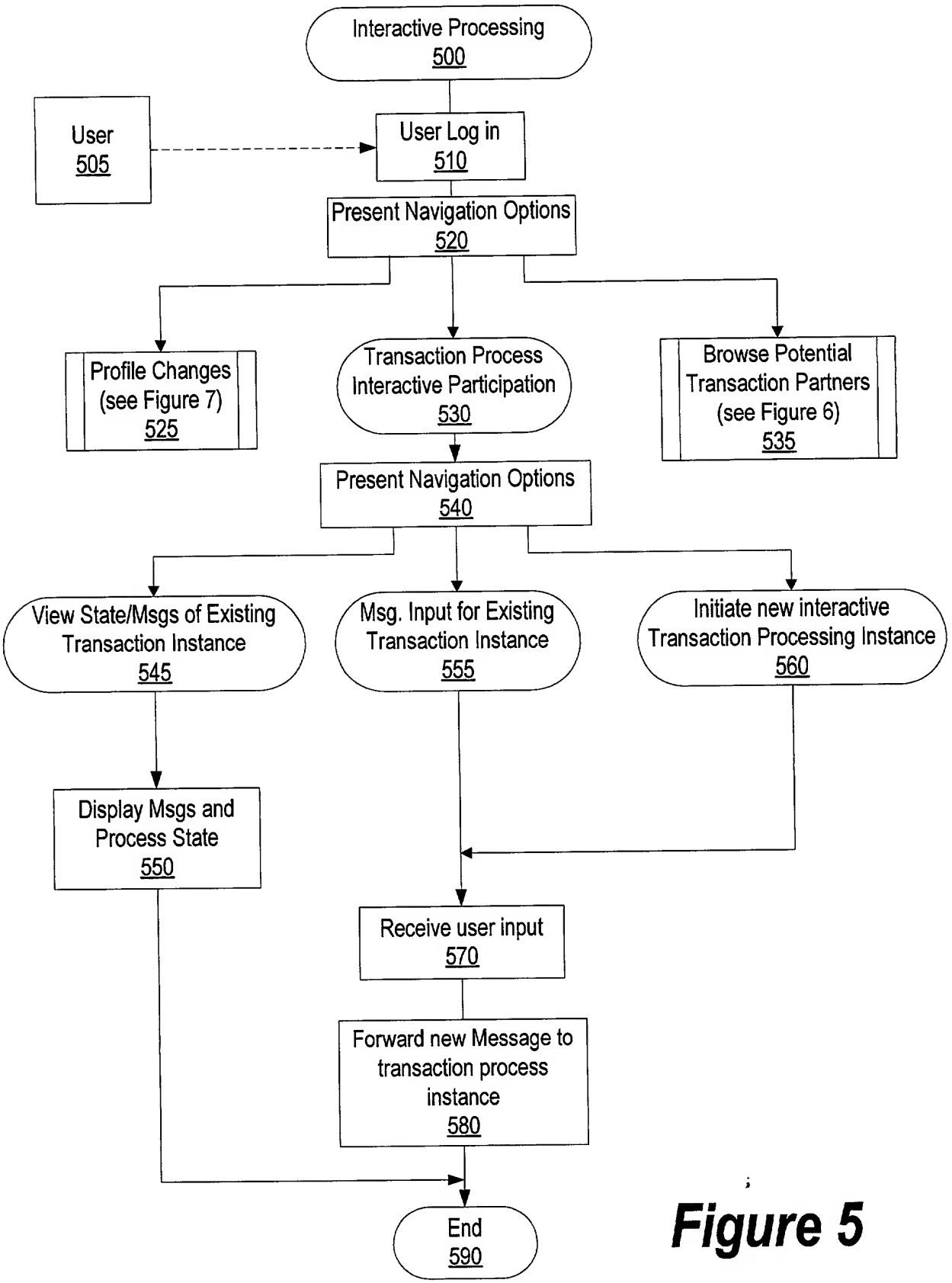
Interactive Processing
500
User
505
User Log in
510
Present Navigation Options
520
Profile Changes
(see Figure 7)
525
Transaction Process
Interactive Participation
530
Browse Potential
Transaction Partners
(see Figure 6)
535
Present Navigation Options
540
View State/Msgs of Existing
Transaction Instance
545
Msg. Input for Existing
Transaction Instance
555
Initiate new interactive
Transaction Processing Instance
560
Display Msgs and
Process State
550
Receive user input
570
Forward new Message to
transaction process
instance
580
End
590

Figure 5

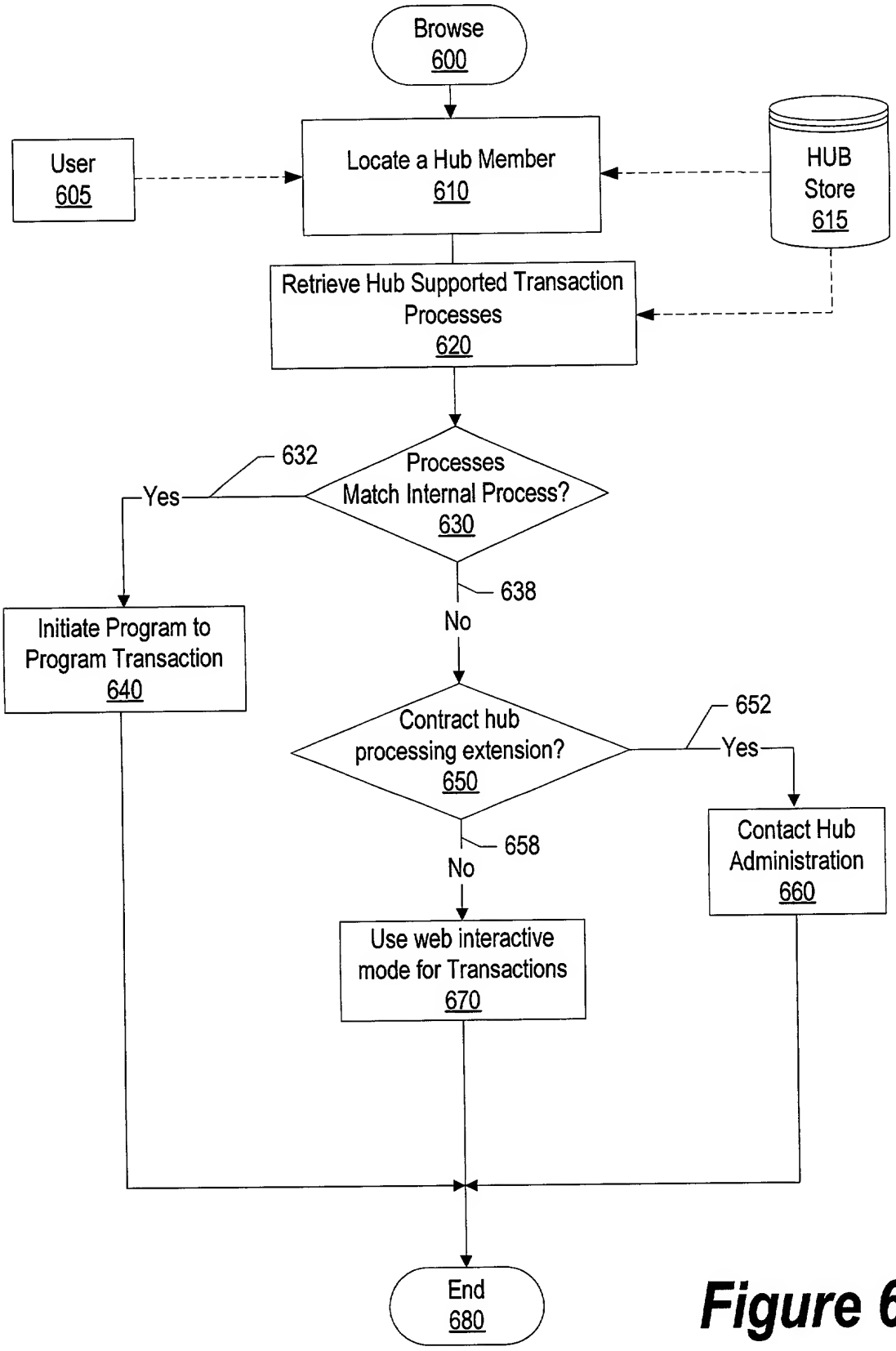
Browse
600
User
605
Locate a Hub Member
610
HUB
Store
615
Retrieve Hub Supported Transaction Processes
620
Processes Match Internal Process?
630
632
Yes
638
No
Initiate Program to Program Transaction
640
Contract hub processing extension?
650
652
Yes
658
No
Contact Hub Administration
660
Use web interactive mode for Transactions
670
End
680

Figure 6

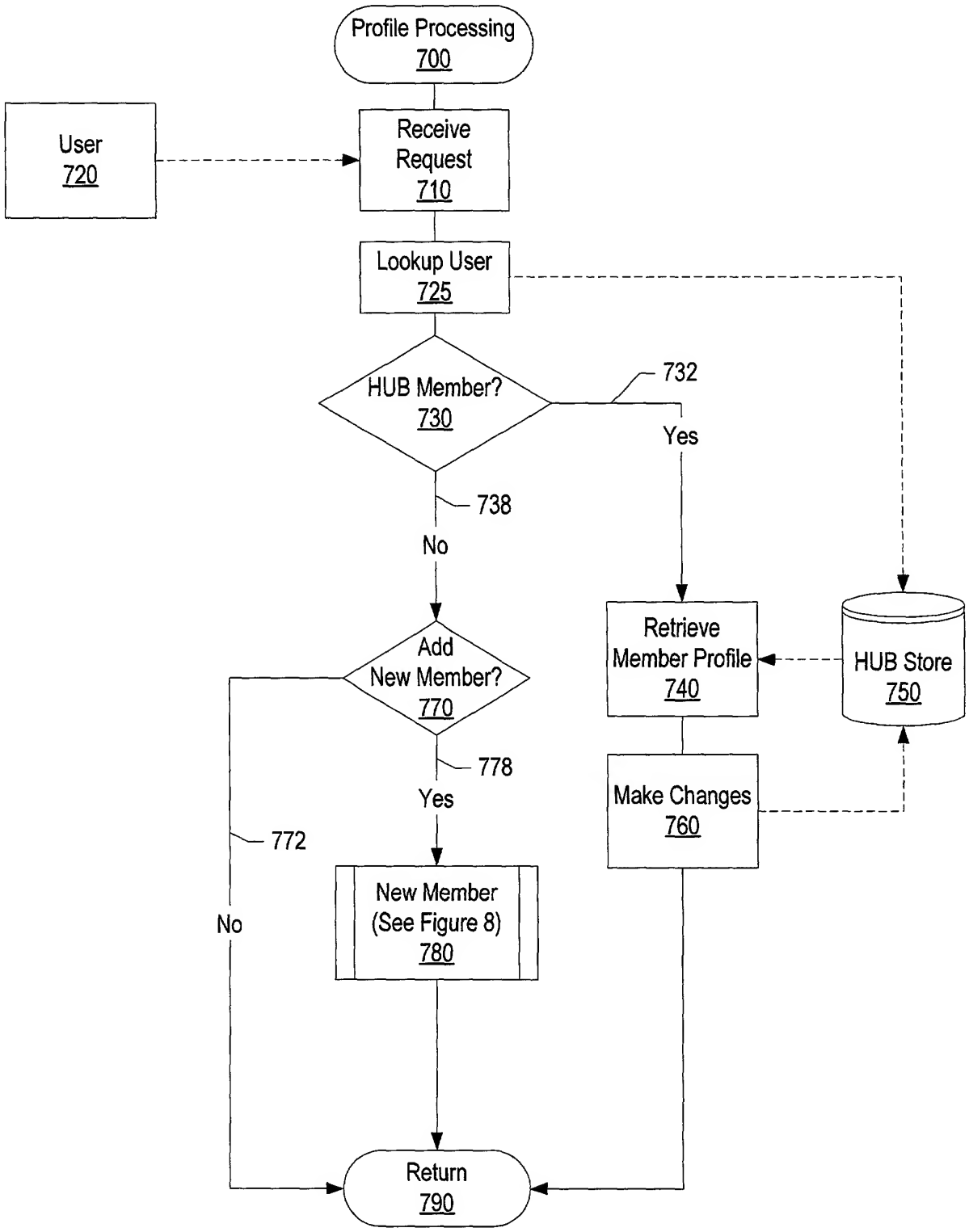
Profile Processing
700
User
720
Receive
Request
710
Lookup User
725
HUB Member?
730
732
Yes
738
No
Add
New Member?
770
778
Yes
772
No
New Member
(See Figure 8)
780
Retrieve
Member Profile
740
HUB Store
750
Make Changes
760
Return
790

Figure 7

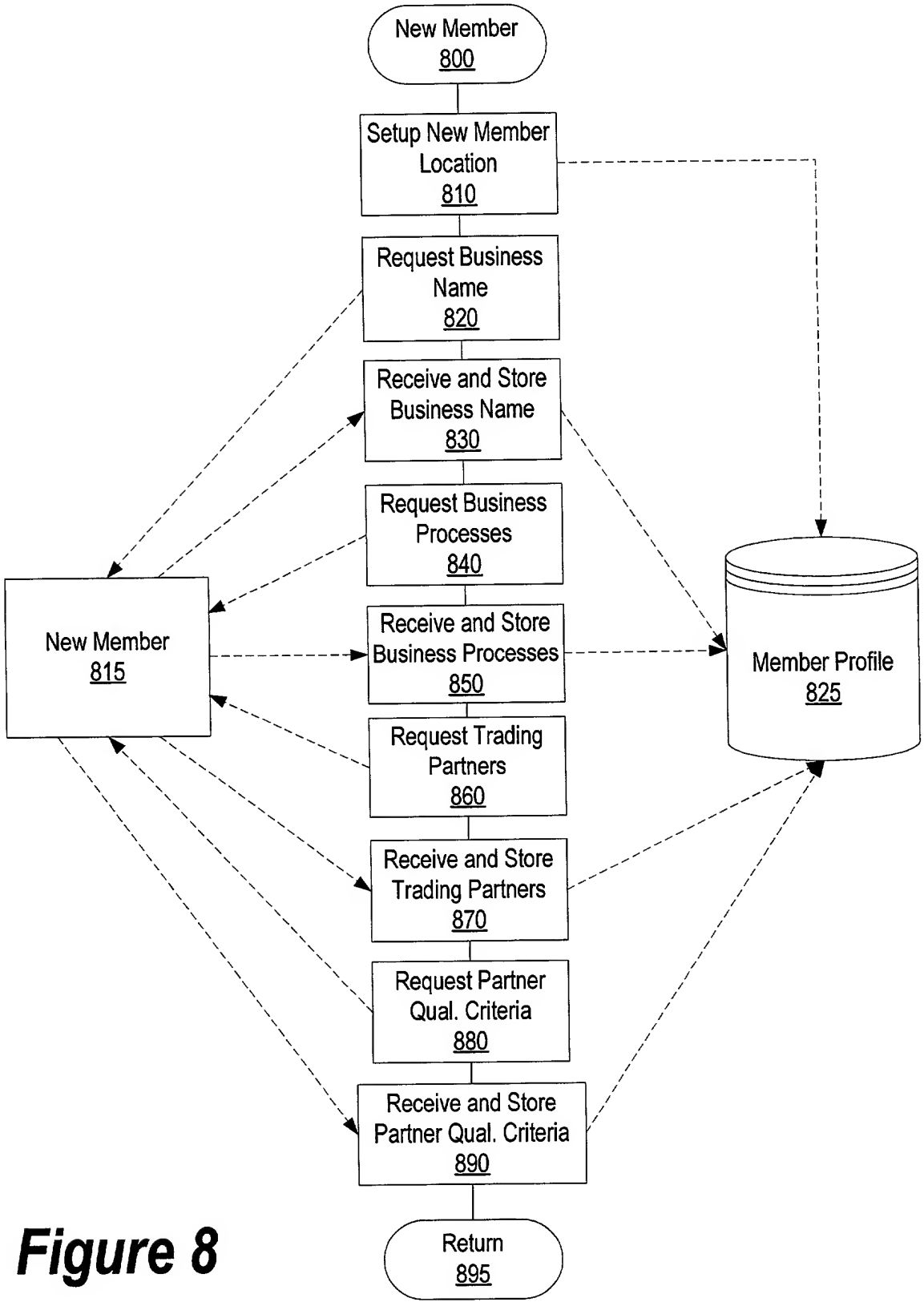
New Member
800
Setup New Member Location
810
Request Business Name
820
Receive and Store Business Name
830
Request Business Processes
840
Receive and Store Business Processes
850
Request Trading Partners
860
Receive and Store Trading Partners
870
Request Partner Qual. Criteria
880
Receive and Store Partner Qual. Criteria
890
Return
895
New Member
815
Member Profile
825

Figure 8

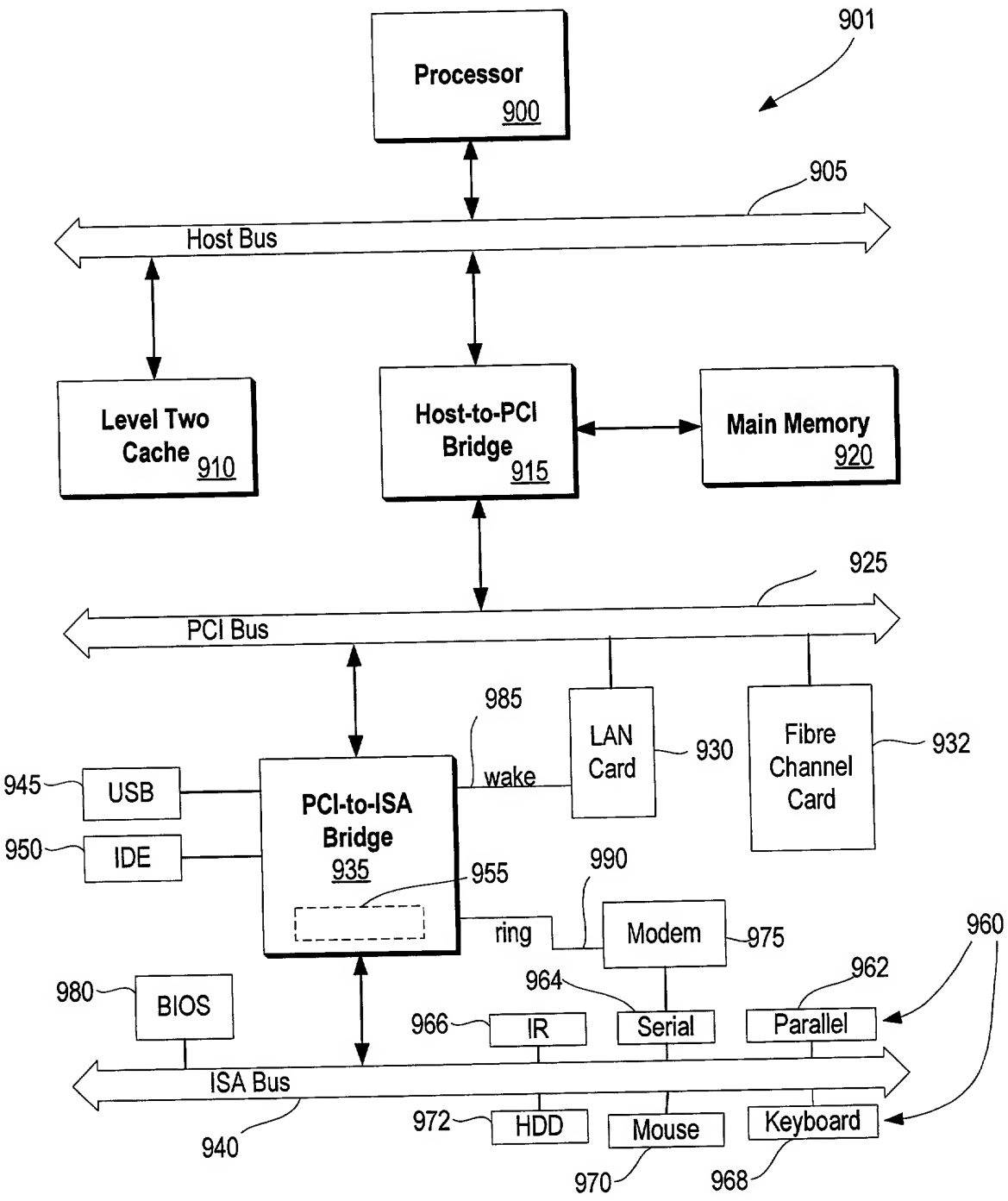
901
Processor
900
905
Host Bus
Level Two
Cache 910
Host-to-PCI
Bridge 915
Main Memory
920
925
PCI Bus
985
LAN
Card
930
Fibre
Channel
Card
932
945
USB
wake
PCI-to-ISA
Bridge
935
950
IDE
955
990
ring
Modem
975
960
962
964
980
BIOS
966
IR
Serial
Parallel
ISA Bus
940
972
HDD
Mouse
Keyboard
970
968

Figure 9